

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

ATTORNEY DOCKET NO.: SOEI-5001

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

CELL CALCIFICATION SUPPRESSING PROTEINS, AND GENES OF THE PROTEINS

is attached hereto; or

was filed as United States application Serial No. _____ on JUNE 18, 1997 and was amended on _____ (if applicable); or

was filed as PCT international application Number _____ on _____ and was amended under PCT Article 19 on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office information which is material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119:

| COUNTRY (if PCT, indicate PCT) | APPLICATION NUMBER | DATE OF FILING (day, month, year) | PRIORITY CLAIMED UNDER 35 U.S.C. §119 |
|-----------------------------------|--------------------|--------------------------------------|--|
| | | | [] Yes [] No |
| | | | [] Yes [] No |
| | | | [] Yes [] No |
| | | | [] Yes [] No |

Combined Declaration For Patent Application and Power of Attorney - (Continued)
(includes Reference to PCT International Applications)

ATTORNEY DOCKET NO.: SOEI-5001

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. §120:

| U.S. APPLICATIONS | | STATUS (Check One) | | |
|---------------------------------------|------------------|--------------------|--------------------|-----------|
| U.S. APPLICATION NO. | U.S. FILING DATE | PATENTED | PENDING | ABANDONED |
| | | | | |
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| PCT APPLICATIONS DESIGNATING THE U.S. | | | STATUS (Check One) | |
| PCT APPLN. NO. | PCT FILING DATE | U.S. SERIAL NO. | PATENTED | PENDING |
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POWER OF ATTORNEY: as a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Morgan, Lewis & Bockius LLP

Robert J. Gaybrick, Reg. No. 27,890; Richard S. Meyer, Reg. No. 32,541; C. Scott Talbot, Reg. No. 34,262;
Reid G. Adler, Reg. No. 30,988; J. Michael Thesz, Reg. No. 40,354; John G. Smith, Reg. No. 33,818;
Song K. Jung, Reg. No. 35,210; Michele M. Schafer, Reg. No. 34,717; Matthew T. Bailey, Reg. No. 33,829;
Jeffrey A. Lindeman, Reg. No. 34,658; John D. Zele, Reg. No. 39,887; Mary Jane Boswell, Reg. No. 33,652;
Michele V. Frank, Reg. No. 37,028; Michael P. Tierney, Reg. No. 35,388.

| | |
|--|---|
| Send Correspondence To: Morgan, Lewis & Bockius LLP 1800 M Street, N.W. Washington, D.C. 20036-5869 | Direct Telephone Calls To: (name and telephone number) Robert J. Gaybrick (202) 467-7501 |
|--|---|

Combined Declaration For Patent Application and Power of Attorney - (Continued)
(includes Reference to PCT International Applications)

ATTORNEY DOCKET NO.: SOEI-5001

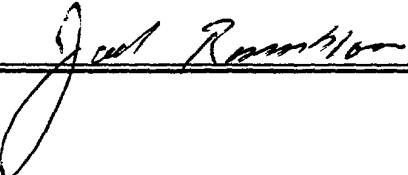
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| | | |
|-------------------------------------|---|---------------------------------|
| FULL NAME OF SOLE OR FIRST INVENTOR | Masahiro IWAMOTO | |
| RESIDENCE & CITIZENSHIP | Osaka, Japan | COUNTRY OF CITIZENSHIP JAPAN |
| POST OFFICE ADDRESS | 4-6-10-606, Aoshinke, Minoo-shi, Osaka 562 Japan | |
| FIRST OR SOLE INVENTOR'S SIGNATURE | <i>Masahiro Iwamoto</i> | DATE August 27, 1997 |
| FULL NAME OF SECOND INVENTOR | Yoshinobu HIGUCHI | |
| RESIDENCE & CITIZENSHIP | Shizuoka, Japan | COUNTRY OF CITIZENSHIP JAPAN |
| POST OFFICE ADDRESS | c/o CHUGAI SEIYAKU KABUSHIKI KAISHA 135, Komakado 1-chome, Gotemba-shi, Shizuoka 412 Japan | |
| SECOND INVENTOR'S SIGNATURE | <i>Yoshinobu Higuchi</i> | DATE August 27, 1997 |
| FULL NAME OF THIRD INVENTOR | Maurizio PACIFICI | |
| RESIDENCE & CITIZENSHIP | Philadelphia, PA U.S.A. | COUNTRY OF CITIZENSHIP US |
| POST OFFICE ADDRESS | c/o University of Pennsylvania, School of Dental Medicine, 4010 Locust Street, Levy Building, Philadelphia, PA 19104 USA | |
| THIRD INVENTOR'S SIGNATURE | <i>Maurizio Pacifici</i> | DATE September 4, 1997 |

Listing of Inventors Continued on attached page(s) Yes No

Combined Declaration For Patent Application and Power of Attorney - (Continued)
 (includes Reference to PCT International Applications)

ATTNEY DOCKET NO.: SOEI-5001

| | | |
|------------------------------|---|------------------------------|
| FULL NAME OF FOURTH INVENTOR | Joel Rosenbloom | |
| RESIDENCE & CITIZENSHIP | Philadelphia, PA USA | COUNTRY OF CITIZENSHIP US |
| POST OFFICE ADDRESS | c/o University of Pennsylvania, School of Dental Medicine, 4010 Locust Street, Levy Building, Philadelphia, PA 19104 USA | |
| FOURTH INVENTOR'S SIGNATURE |  | |
| | DATE September 9, 1997 | |
| FULL NAME OF FIFTH INVENTOR | | |
| RESIDENCE & CITIZENSHIP | | COUNTRY OF CITIZENSHIP |
| POST OFFICE ADDRESS | | |
| FIFTH INVENTOR'S SIGNATURE | | |
| FULL NAME OF SIXTH INVENTOR | | |
| RESIDENCE & CITIZENSHIP | | COUNTRY OF CITIZENSHIP |
| POST OFFICE ADDRESS | | |
| SIXTH INVENTOR'S SIGNATURE | | |
| | DATE | |

Listing of Inventors Continued on attached page(s) Yes No

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Attorney Docket No.:046124-5001-US

To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

1. Masahiro IWAMOTO
2. Yoshinobu HIGUCHI

2. Name and address of receiving party(ies):

Name: Chugai Seiyaku Kabushiki Kaisha
5-1, Ukimura 5-chome,
Kita-Ku, Tokyo, 115-8543 Japan

Additional name(s) of conveying party(ies) attached?

 Yes X No

Internal Address:

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other _____

Street Address:

City: _____
State: _____ Zip: _____

Execution Date: 1. June 2, 2001, 2. May 28, 2001

Additional name(s) & address(es) attached?

 Yes X No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s) 08/878,177

B. Patent No.(s)

Additional numbers attached: Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved: 1

Name: Mr. John G. Smith
Internal Address: Customer No. 09629
Morgan, Lewis & Bockius LLP

7. Total fee (37 C.F.R §3.41): \$40.00

Street Address: 1800 M Street, N.W.
City: Washington State: D.C. Zip: 20036

X Enclosed
 Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310
Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John G. Smith
Name of Person Signing

Signature

July 12, 2001
Date

Total number of pages including cover sheet, attachments and documents: 2

ASSIGNMENT

Whereas, I/we,

NameAddress1) **Masahiro IWAMOTO**

4-6-10-606, Aoshinke,
Minoo-shi, Osaka 562 Japan
c/o CHUGAI SEIYAKU KABUSHIKI KAISHA,

2) **Yoshinobu HIGUCHI**

135, Komakado 1-chome,
Gotemba-shi, Shizuoka 412-8513 Japan

hereinafter called assignor(s), have invented certain improvements in
CELL CALCIFICATION SUPPRESSING PROTEINS, AND GENES OF THE PROTEINS

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

filed on June 18, 1997, Serial No. 08/878177; and

Whereas

CHUGAI SEIYAKU KABUSHIKI KAISHA

5-1, Ukimura 5-chome,
Kita-ku, Tokyo 115-8543 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

INVENTORS1):
Name:

Masahiro IWAMOTO
DATE SIGNED06/02/20012):
Name:

Yoshinobu HIGUCHI
Yoshinobu HIGUCHI
05/28/2001